<110> Mirkin, Chad A.
      Letsinger, Robert L.
      Mucic, Robert C.
      Storhoff, James J.
      Elghanian, Robert
      Taton, Thomas A.
      Garimella, Viswanadham
      Li, Zhi
      Park, So-Jung

<120> NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO
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<210> 4
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<210> 11
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atggcaacta tacgcgctag agtcgttt                                    28


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<210> 13
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gcgctagagt cgttt                                                  15


<210> 15
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<210> 16
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<400> 16
gtcgatagga aacgactcta gcgc                                          24


<210> 17
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agcatggttg ataggaaacg actctagcgc                                    30


<210> 18
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agcatgtttg ataggaaacg actctagcgc                                    30


<210> 19
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tacgagttga gagagtgccc acat   24

<210> 22
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tacgagttga gaatcctgaa tgcg   24

<210> 23
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tacgagttga gaatcctgaa tgct   24

<210> 24
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<400> 24
tacgagttga gactcctgaa tgcg   24

<210> 25
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<213> Artificial Sequence

<220>
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<400> 25
tacgagttga gaatcctgaa tgc   23

<210> 26
<211> 25
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<220>
<223> Description of Artificial Sequence:random
      synthetic sequence

<400> 26
tacgagttga gacatcctga atgcg   25

<210> 27
<211> 24
<212> DNA
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<220>
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      synthetic sequence

<400> 27
tacgagttga gaatcctgaa tgcg   24

<210> 28
<211> 12
<212> DNA
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<220>
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<400> 28
taggacttac gc   12

<210> 29
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<220>
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<400> 29
tacgagttga gaccgttaag acgaggcaat catgcaatcc tgaatgcg   48

<210> 30
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<213> Artificial Sequence

<220>
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<400> 30
tgcatgattg cctcgtctta acgg   24

<210> 31
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<220>
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     synthetic sequence

<400> 31
tacgagttga gaccgttaag acgaggcaat catgcatata ttggacgctt tacggacaac 60
atcctgaatg cg   72

<210> 32
<211> 48
<212> DNA
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<220>
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<400> 32
gttgtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg   48

<210> 33
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<220>
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<400> 33
tctcaactcg ta   12

<210> 34
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<400> 34
tacgagttga gaatcctgaa tgcg   24

<210> 35
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<220>
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<400> 35
cgcattcagg at                                              12


<210> 36
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<400> 36
ggcggatgag tcagtagtta aggaggctca tagagaagta attaattcgt caacagaggg 60
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attgaagata ctgaagggct t                                    141


<210> 37
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taacaataat ccctc                                           15


<210> 38
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<400> 38
atccttatca atatt                                           15


<210> 39
<211> 30
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<400> 39
tgagcctcct taactactga ctcatccgcc                           30


<210> 40
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<400> 40
tgttgacgaa ttaattactt ctcta   25

<210> 41
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<400> 41
tataaccctg gataatattt ttcttat   27

<210> 42
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<400> 42
aagcccttca gtatcttcaa tttctacaa   29

<210> 43
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tctcaactcg taaaaaaaaa aa   22

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aaaaaaaaaa cgcattcagg at                                    22


<210> 46
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<220>
<223> Description of Artificial Sequence:random
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<400> 46
tctcaactcg taaaaaaaaa aa                                    22


<210> 47
<211> 22
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<220>
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      synthetic sequence

<400> 47
aaaaaaaaaa cgcattcagg at                                    22


<210> 48
<211> 24
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<400> 48
tacgagttga gaatcctgaa tgcg                                  24


<210> 49
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<400> 49
ctacttagat ccgagtgccc acat                                  24


<210> 50
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<210> 52
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cgcattcagg atwwwwwwww wwwwwwwwww ww                              32


<210> 53
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<400> 53
atcctgaatg cg                                                    12


<210> 54
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<400> 54
atcctgaatg cg                                                    12


<210> 55
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aaaaaaaaaa aaaaaaaaaa   20

<210> 56
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<400> 56
ggattattgt taattattga taaggat   27

<210> 57
<211> 12
<212> DNA
<213> Anthrax

<400> 57
taacaatnat cc   12

<210> 58
<211> 15
<212> DNA
<213> Anthrax

<400> 58
atccttatca atatt   15

<210> 59
<211> 12
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<400> 59
tctcaactcg ta   12

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<211> 24
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tacgagttga gaatcctgaa tgcg   24

<210> 61
<211> 48
<212> DNA

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<220>
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<400> 61
gcgtaagtcc taacgtacta acggagcaga attgccagag ttgagcat   48

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<211> 72
<212> DNA
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<220>
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<400> 62
gcgtaagtcc tacaacaggc atttcgcagg ttatatacgt actaacggag cagaattgcc 60
agagttgagc at   72

<210> 63
<211> 24
<212> DNA
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<220>
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<400> 63
tgcatgattg cctcgtctta acgg   24

<210> 64
<211> 48
<212> DNA
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<220>
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<400> 64
gttgtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg   48

<210> 65
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
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<400> 65
tatcgttcca tcagct   16

<210> 66
<211> 15
<212> DNA

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<220>
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<400> 66
ttgatcttcc gttct                                              15

<210> 67
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agaacggaaa gatcaacgag ctgatggaac gata                         34

<210> 68
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<220>
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<400> 68
aaaaaaaaaa aaaaaaaaaa gcagacctca                              30

<210> 69
<211> 31
<212> DNA
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<220>
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<400> 69
aaaaaaaaaa aaaaaaaaaa cctatgtgtc g                            31

<210> 70
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<212> DNA
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<220>
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<400> 70
aaaaaaaaaa aaaaaaaaaa                                         20

<210> 71
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<220>
<223> Description of Artificial Sequence:random
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cgacacatag gtgaggtctg c                                          21

<210> 72
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<220>
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<400> 72
aaaaaaaaaa aaaaaaaaaa atccttatca atatt                           35

<210> 73
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence:random
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<400> 73
tctcaactcg taaaaaaaaa aa                                          22

<210> 74
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
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<400> 74
aaaaaaaaaa cgcattcagg at                                          22

<210> 75
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
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<400> 75
aaaaaaaaaa cgcattcagg at                                          22

<210> 76
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
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<400> 76
tacgagttga gaatcctgat tgcg                                       24

<210> 77
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<211> 35
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<220>
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<400> 7
aaaaaaaaaa aaaaaaaaaa atccttatca atatt                          35

<210> 78
<211> 35
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<220>
<223> Description of Artificial Sequence:random
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<400> 78
aaaaaaaaaa aaaaaaaaaa taacaataat ccctc                          35

<210> 79
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
      synthetic sequence

<400> 79
taatatcctt cttataaaaa aaaaaaaaaa aaaaa                          35

<210> 80
<211> 35
<212> DNA
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<220>
<223> Description of Artificial Sequence:random
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<400> 80
ctacaatata accctaaaaa aaaaaaaaaa aaaaa                          35

<210> 81
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
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<400> 81
ataagaagga tattaaatat tgataaggat                               30

<210> 82
<211> 30
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<220>
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<223> Description of Artificial Sequence:random
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agggttatat tgtaggaggg attattgtta   30